

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P530791

Luminaire Tested: **GALN-SA6A-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15086 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

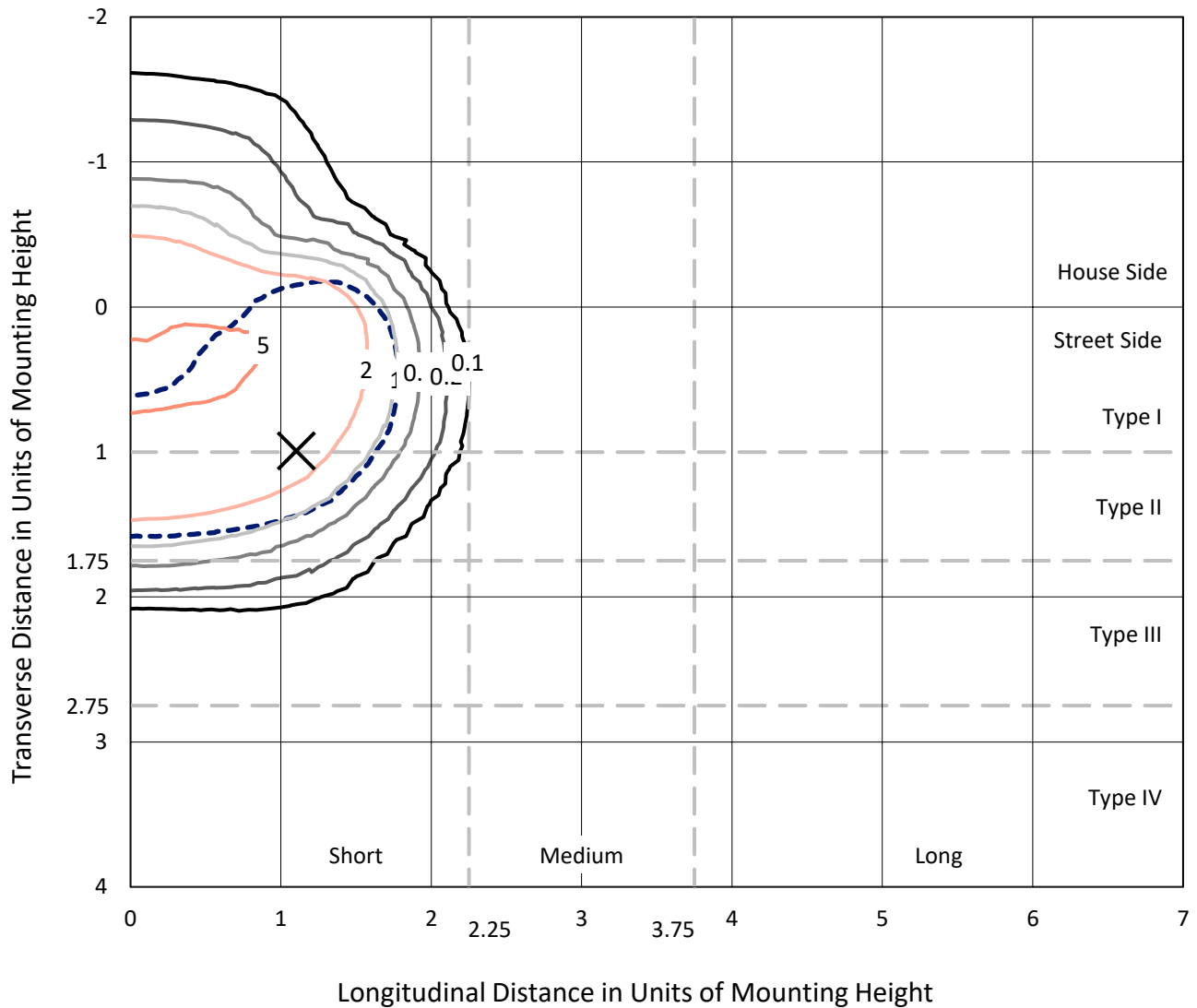
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

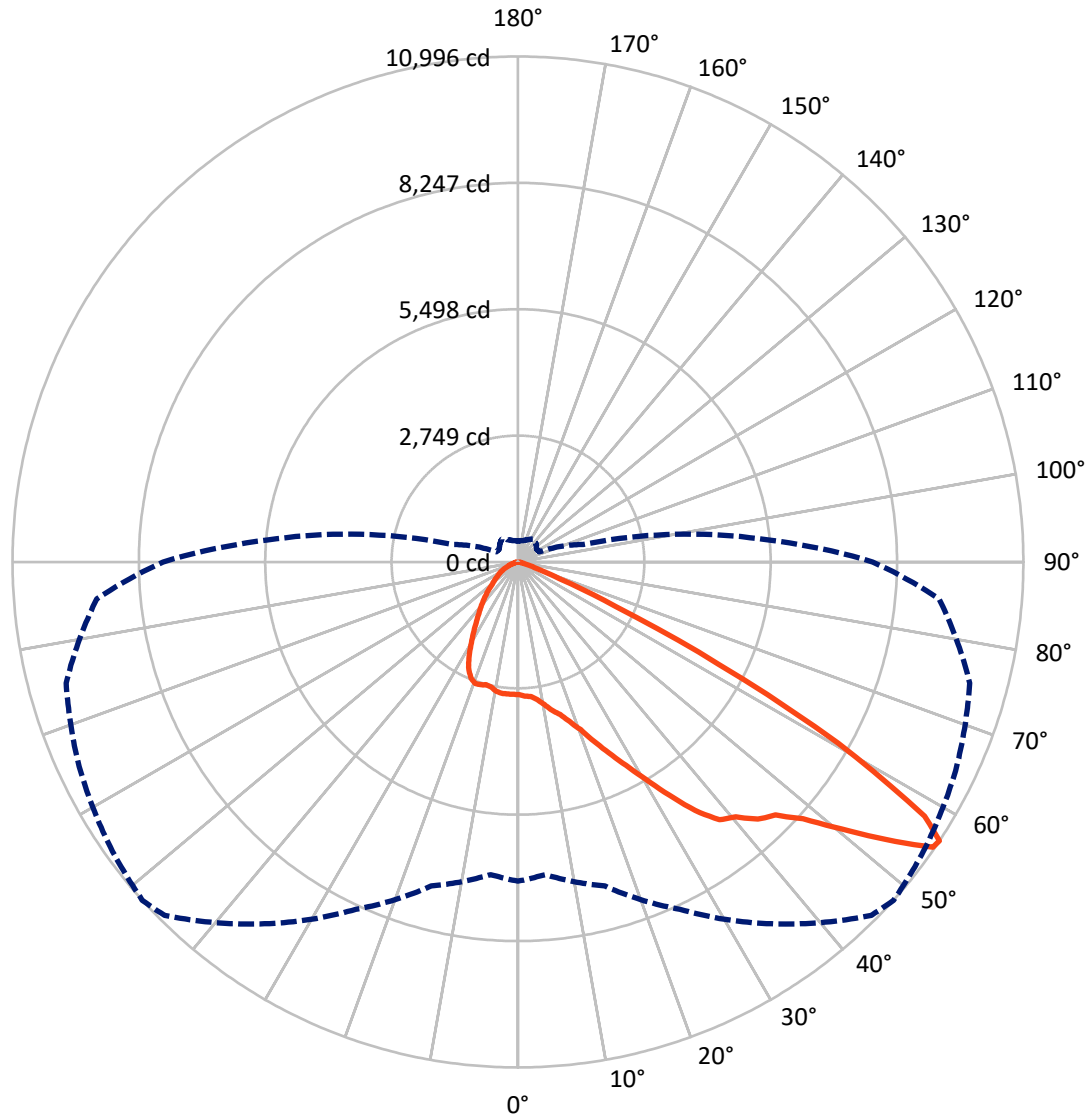
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3280.9	0.0	3280.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	11805.1	0.0	11805.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	15086.0	0.0	15086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.7	1.9
10°-20°	897.0	5.9
20°-30°	1627.0	10.8
30°-40°	2555.7	16.9
40°-50°	3728.3	24.7
50°-60°	4491.9	29.8
60°-70°	1315.2	8.7
70°-80°	166.8	1.1
80°-90°	23.4	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	15086.0	100.0
0°-180°	15086.0	100.0

Coefficient of Utilization

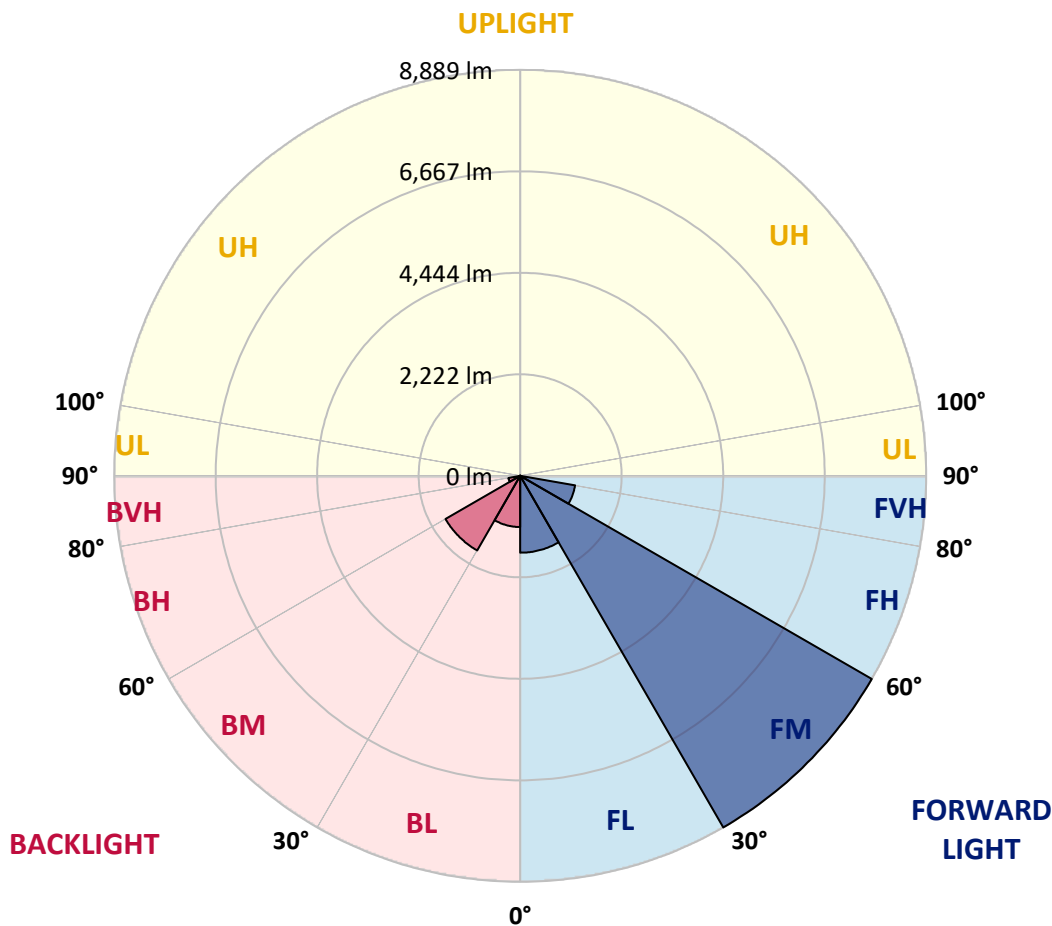


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1683.3	11.2			
FM (30°-60°)	8888.7	58.9			
FH (60°-80°)	1221.3	8.1			G1/1800
FVH (80°-90°)	11.7	0.1			G1/100
BL (0°-30°)	1121.4	7.4	B3/2500		
BM (30°-60°)	1887.2	12.5	B2/2500		
BH (60°-80°)	260.7	1.7	B1/500		G1/500
BVH (80°-90°)	11.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4
2.5°	2933.6	2919.9	2919.9	2897.9	2922.6	2911.6	2919.9	2892.4	2919.9	2878.7	2911.6
5°	2947.4	2950.1	2939.1	2952.9	2952.9	2969.3	2941.9	2966.6	2980.3	2950.1	2936.4
7.5°	3018.8	3024.3	3021.5	3010.5	3032.5	3029.8	3027.0	3007.8	3013.3	3002.3	2985.8
10°	3158.9	3156.1	3169.9	3142.4	3125.9	3145.1	3150.6	3120.4	3098.4	3090.2	3038.0
12.5°	3362.1	3329.2	3309.9	3282.5	3290.7	3263.2	3312.7	3260.5	3249.5	3200.1	3147.9
15°	3526.9	3521.4	3524.2	3480.2	3430.8	3441.8	3441.8	3414.3	3397.8	3337.4	3263.2
17.5°	3864.8	3749.4	3774.2	3719.2	3678.0	3675.3	3650.5	3656.0	3612.1	3485.7	3373.1
20°	4128.5	4079.1	4040.6	3947.2	3884.0	3903.3	3892.3	3864.8	3851.1	3686.3	3526.9
22.5°	4364.7	4381.2	4318.0	4293.3	4205.4	4213.6	4235.6	4210.9	4106.5	3936.2	3700.0
25°	4697.1	4677.9	4592.7	4562.5	4480.1	4510.3	4595.5	4576.2	4510.3	4202.7	3834.6
27.5°	5089.9	5024.0	5040.4	4903.1	4823.4	4908.6	5010.2	5106.4	4919.6	4515.8	3993.9
30°	5367.3	5298.6	5293.2	5287.7	5268.4	5367.3	5485.4	5573.3	5422.3	4828.9	4257.6
32.5°	5504.7	5521.1	5567.8	5551.4	5718.9	5922.2	6045.8	6172.1	5982.6	5339.9	4606.4
35°	5870.0	5765.6	5870.0	5881.0	6054.0	6485.3	6641.9	6944.0	6897.3	6062.3	5032.2
37.5°	6084.2	6076.0	6089.7	6194.1	6361.7	6894.6	7117.1	7350.5	7262.6	6496.3	5562.3
40°	6438.6	6460.6	6457.8	6537.5	6721.5	7202.2	7292.9	7482.4	7490.6	7097.8	6342.4
42.5°	7007.2	6919.3	6861.6	6944.0	7202.2	7468.7	7649.9	7611.5	7883.4	7828.5	7345.0
45°	7518.1	7570.3	7485.1	7622.5	7715.9	7858.7	7853.2	7935.6	8281.7	8542.7	8100.4
47.5°	7996.0	8029.0	8070.2	8163.6	8366.9	8388.8	8342.1	8306.4	8784.4	9053.6	8685.5
50°	8281.7	8311.9	8504.2	8671.8	9050.8	9100.3	9127.7	9037.1	9361.2	9391.4	9237.6
52.5°	8204.8	8237.8	8507.0	9059.1	9663.4	10116.6	10034.2	9880.4	9861.1	9979.3	9748.5
55°	7523.6	7493.4	7864.2	8724.0	9855.7	10943.4	10954.4	10792.3	10481.9	10402.3	9671.6
56°	6944.0	6825.9	7298.3	8336.7	9608.4	10872.0	10995.6	10822.5	10531.4	10174.3	9196.4
57.5°	5688.7	5801.3	6271.0	7130.8	8754.2	10358.3	10429.7	10388.5	10168.8	9570.0	8092.2
60°	3136.9	3334.7	3749.4	4801.5	6232.6	7949.3	8007.0	8342.1	8383.3	7328.6	5567.8
62.5°	1332.2	1310.2	1741.5	2516.1	3548.9	4798.7	4905.9	5249.2	5312.4	4224.6	2793.5
65°	541.1	571.3	788.3	1266.3	1876.1	2186.5	2337.6	2450.2	2658.9	1744.2	1030.1
67.5°	357.1	354.3	464.2	722.4	1010.8	975.1	975.1	1030.1	953.2	711.4	445.0
70°	255.5	263.7	332.4	499.9	629.0	467.0	447.7	428.5	486.2	469.7	359.8
72.5°	167.6	178.5	222.5	299.4	326.9	255.5	255.5	307.6	401.0	379.1	293.9
75°	109.9	112.6	137.3	173.1	162.1	131.8	145.6	206.0	291.2	280.2	208.8
77.5°	74.2	76.9	93.4	112.6	90.6	74.2	79.7	104.4	142.8	142.8	109.9
80°	27.5	30.2	38.5	35.7	41.2	52.2	57.7	71.4	85.2	85.2	74.2
82.5°	0.0	2.7	8.2	19.2	30.2	41.2	46.7	54.9	63.2	71.4	68.7
85°	0.0	2.7	8.2	13.7	22.0	24.7	27.5	19.2	16.5	16.5	13.7
87.5°	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	5.5	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4
2.5°	2881.4	2878.7	2878.7	2870.4	2886.9	2878.7	2884.2	2881.4	2845.7	2873.2	2854.0
5°	2911.6	2930.9	2900.7	2895.2	2873.2	2881.4	2881.4	2854.0	2878.7	2875.9	2870.4
7.5°	2988.6	2955.6	2922.6	2889.7	2884.2	2875.9	2845.7	2834.7	2854.0	2832.0	2865.0
10°	3021.5	3027.0	2977.6	2933.6	2892.4	2834.7	2793.5	2768.8	2738.6	2771.6	2790.8
12.5°	3172.6	3117.7	3032.5	2963.8	2823.7	2766.1	2724.9	2713.9	2766.1	2777.1	2757.8
15°	3224.8	3216.5	3106.7	2952.9	2807.3	2738.6	2746.8	2724.9	2730.4	2702.9	2708.4
17.5°	3331.9	3238.5	3109.4	2917.1	2804.5	2788.0	2738.6	2650.7	2601.3	2579.3	2598.5
20°	3450.0	3359.4	3172.6	2930.9	2829.2	2785.3	2623.2	2516.1	2414.5	2359.5	2362.3
22.5°	3554.4	3441.8	3145.1	2936.4	2851.2	2669.9	2474.9	2263.4	2137.0	2051.9	2054.6
25°	3680.8	3521.4	3156.1	2947.4	2793.5	2485.9	2205.7	1999.7	1848.6	1790.9	1810.2
27.5°	3752.2	3570.9	3216.5	2972.1	2642.5	2224.9	1922.8	1730.5	1642.6	1615.1	1612.4
30°	3966.4	3680.8	3290.7	2922.6	2389.7	1944.8	1664.6	1546.5	1461.3	1436.6	1442.1
32.5°	4285.1	3881.3	3386.9	2793.5	2131.5	1694.8	1497.0	1409.1	1329.5	1282.8	1277.3
35°	4551.5	4224.6	3488.5	2593.0	1832.1	1502.5	1378.9	1269.0	1148.2	1096.0	1082.3
37.5°	5059.7	4611.9	3466.5	2290.9	1546.5	1359.7	1252.6	1118.0	1013.6	942.2	933.9
40°	5735.4	5065.2	3359.4	1922.8	1335.0	1233.3	1118.0	988.9	859.8	799.3	793.8
42.5°	6556.7	5620.0	3164.4	1549.2	1123.5	1107.0	1002.6	854.3	738.9	694.9	697.7
45°	7224.2	6095.2	2966.6	1244.3	966.9	983.4	892.7	752.6	673.0	637.3	637.3
47.5°	7817.5	6416.6	2752.3	1027.3	821.3	859.8	780.1	697.7	629.0	601.6	596.1
50°	8388.8	6743.5	2538.1	832.3	700.4	738.9	730.7	664.7	609.8	576.8	579.6
52.5°	8745.9	6795.7	2266.1	681.2	612.5	656.5	684.0	623.5	563.1	543.9	538.4
55°	8309.2	6122.7	1758.0	560.4	519.2	576.8	629.0	560.4	513.7	480.7	477.9
56°	7721.4	5474.4	1469.6	516.4	491.7	554.9	609.8	535.6	483.4	464.2	450.5
57.5°	6537.5	4480.1	1085.0	458.7	456.0	516.4	579.6	510.9	450.5	434.0	434.0
60°	4076.3	2521.6	656.5	384.6	395.5	458.7	521.9	456.0	401.0	401.0	409.3
62.5°	1856.9	1049.3	398.3	326.9	340.6	395.5	464.2	412.0	381.8	412.0	417.5
65°	631.8	453.2	288.4	260.9	269.2	326.9	398.3	417.5	414.8	434.0	445.0
67.5°	354.3	291.2	241.7	217.0	211.5	241.7	326.9	417.5	401.0	392.8	398.3
70°	299.4	247.2	214.3	192.3	184.0	195.0	252.7	315.9	282.9	274.7	269.2
72.5°	241.7	206.0	186.8	173.1	148.3	126.4	115.4	120.9	134.6	142.8	156.6
75°	170.3	156.6	156.6	140.1	107.1	79.7	63.2	52.2	35.7	24.7	27.5
77.5°	96.1	96.1	98.9	85.2	68.7	52.2	38.5	27.5	13.7	5.5	2.7
80°	65.9	71.4	76.9	68.7	57.7	46.7	33.0	19.2	8.2	0.0	0.0
82.5°	65.9	74.2	79.7	68.7	57.7	43.9	33.0	19.2	8.2	2.7	0.0
85°	13.7	16.5	19.2	22.0	33.0	33.0	24.7	16.5	8.2	2.7	0.0
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)